CLIPPEDIMAGE= JP405055842A

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TITLE: SEMICONDUCTOR DEVICE

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INVENTOR-INFORMATION:

KONDO, MASANORI

ASSIGNEE-INFORMATION:

NAME

SEIKO EPSON CORP

COUNTRY N/A

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## ABSTRACT:

PURPOSE: To improve the generality of a semiconductor device including

operational amplifier by allowing a user to set up several

characteristics for

the operational amplifier built in the semiconductor device by means of

program.

CONSTITUTION: The operational amplifier is provided with plural constant  $% \left( 1\right) =\left( 1\right) +\left( 1\right) +\left$ 

current sources 109, 110, plural PMOS switches 111, 112 for turning on/off the constant current sources 109, 110 and plural constant current source

selecting registers 113, 114 for applying signals to the switches 111, 112. When

'l<sup>1</sup> and '0' are written in the registers 113, 114, the switches 111, 112 are turned on

and off and the level of a current supplied to an output stage is changed.

Thereby the reduction of the current to the output stage suppresses the power

consumption of the operational amplifier, and when the current is increased,

the response speed or driving capacity of the amplifier can be improved.  $% \begin{center} \end{center} \begin{center} \begin$